WHAT IS CLAIMED IS:

1. A compound comprising:
   a. at least one elastomeric polymer, wherein the polymers does not include a conjugated aliphatic diene, wherein the polymer has an average molecular weight M_n of more than 20,000 g/mol and comprises repeating units derived from at least one C_4 to C_7 isomonoolefin monomer, at least one multiolefin cross-linking agent and at least one chain transfer agent, and, wherein the polymer comprises less than 15 wt.% of solid matter insoluble in boiling cyclohexane under reflux for 60 min,
   b. at least one filler and
   c. a peroxide curing system.

2. A compound according to Claim 1, wherein the multiolefin cross-linking agent(s) is norbornadiene, 2-isopropenylnorbornene, 5-vinyl-2-norbornene, 1,3,5-hexatriene, 2-phenyl-1,3-butadiene, divinylbenzene, diisopropenylbenzene, divinyltoluene, divinylxylene, C_1 to C_{20} alkyl-substituted derivatives of the above compounds or mixtures thereof.

3. A compound according to Claim 1, wherein the chain transfer agent(s) is piperylene, 1-methylcycloheptene, 1-methyl-1-cyclopentene, 2-ethyl-1-hexene, 2,4,4-trimethyl-1-pentene, indene,or a mixtures thereof.

4. A compound according to Claim 1, wherein the peroxide system is an organic peroxide

5. A compound according to Claim 4, wherein the peroxide system is dialkylperoxides, ketalperoxides, aralkylperoxides, peroxide ethers, peroxide esters, such as di-tert.-butylperoxide, bis-(tert.-butylperoxy-isopropyl)-benzene, dicumylperoxide, 2,5-dimethyl-2,5-di(tert.-

butylperoxy)-hexane, 2,5-dimethyl-2,5-di(tert.-butylperoxy)-hexene-(3), 1,1-bis-(tert.-butylperoxy)-3,3,5-trimethyl-cyclohexane, benzoylperoxide, tert.-butylcumylperoxide, tert.-butylperbenzoate or a mixture thereof.

6. A compound according to Claim 1, wherein the polymer comprises one or more additional polymerizable co-polymers selected from the group consisting of p-methylstyrene, styrene, α-methylstyrene, p-chlorostyrene, p-methoxystyrene, indene and mixtures thereof.

7. A compound according to Claim 1 further comprising a rubber selected from the group consisting of polybutadiene, butadiene/acrylic acid-C_1-C_4-alkylester-copolymers, polychloroprene, polyisoprene, styrene/butadiene-copolymers with styrene contents in the range of 1 to 60 wt%, butadiene/acrylonitrile-copolymers with acrylonitrile contents of 5 to 60 wt%, partially or totally hydrogenated NBR-rubber, ethylene/propylene/diene-copolymers, fluoropolymers, fluororubbers and mixtures

8. A process for the manufacturing of a compound according to Claim 1, wherein the elastomeric polymer is mixed with at least one filler and at least one peroxide curing system in a mixing means.

9. A process for the manufacturing of an elastomeric polymer comprising the step of polymerizing a monomer mixture comprising at least one C_4 to C_7 isomonoolefin monomer, at least one a multifunctional cross-linking agent, and at least one chain-transfer agent in the presence of a catalyst, wherein the polymer contains less than 15 wt.% of solid matter insoluble in boiling cyclohexane under reflux for 60 min and has no double-bonds in the polymer chain.

10. A shaped article comprising a compound according to Claim 1.

11. A vulcanized shaped article prepared by vulcanizing a shaped article according to Claim 7.

12. A compound comprising:

a. at least one elastomeric polymer, wherein the polymers do not include a conjugated aliphatic diene, wherein the polymer has an average molecular weight Mn of more than 20,000 g/mol and comprises repeating units derived from at least one C_4 to C_7 isomonoolefin cross-linking agent and at least one chain transfer agent, and, wherein the polymer comprises less than 15 wt. % of solid matter insoluble in boiling cyclohexane under relfux for 60 min.,

b. at least one filler, and

c) a peroxide curing system,

wherein the compound is isoprene free.